Graph Based Pattern Recognition

Exercise 7

Basis

- Chapters 11 and 12

Submission

- The submission takes place online on ILIAS.
- Solutions to the theory tasks must be submitted as `*.pdf` file. Other formats will not be accepted.
- Source code for the implementation tasks must be submitted as `*.py` files. Source code that we cannot compile will not be accepted.
- Individual submissions or submissions in teams of two are allowed (hand in only one copy per group. In the source code file, include the *names and matriculation numbers* of both group members in the first two lines as comments).

Dates

- Briefing: 17.05.2023
- Submission: 24.05.2023
- Debriefing: 24.05.2023

Implementation Tasks

In this exercise series, the goal is to create a complete pipeline for training a GNN classifier. First, go to the ILIAS's webpage of the course and download/unzip `Exercise_7.zip` in your `PR_Lecture` folder. Then, navigate to `PR_lecture/Exercise_7/ex7.ipynb` and complete the missing part of the source code by following the instructions from the Jupyter-notebook.

Remark:

Before starting the exercise, ensure that you have installed the required packages, such as Jupyter Notebook, PyTorch, PyTorch-Geometric. If you haven't installed them yet, please do so before proceeding. Alternatively, you can use Google Colab, which offers a stable working environment with all the necessary packages already installed.

Submission
For this exercise, you must submit a `.zip` file containing your Jupyter Notebook.